

4.2.D. 06010201170.

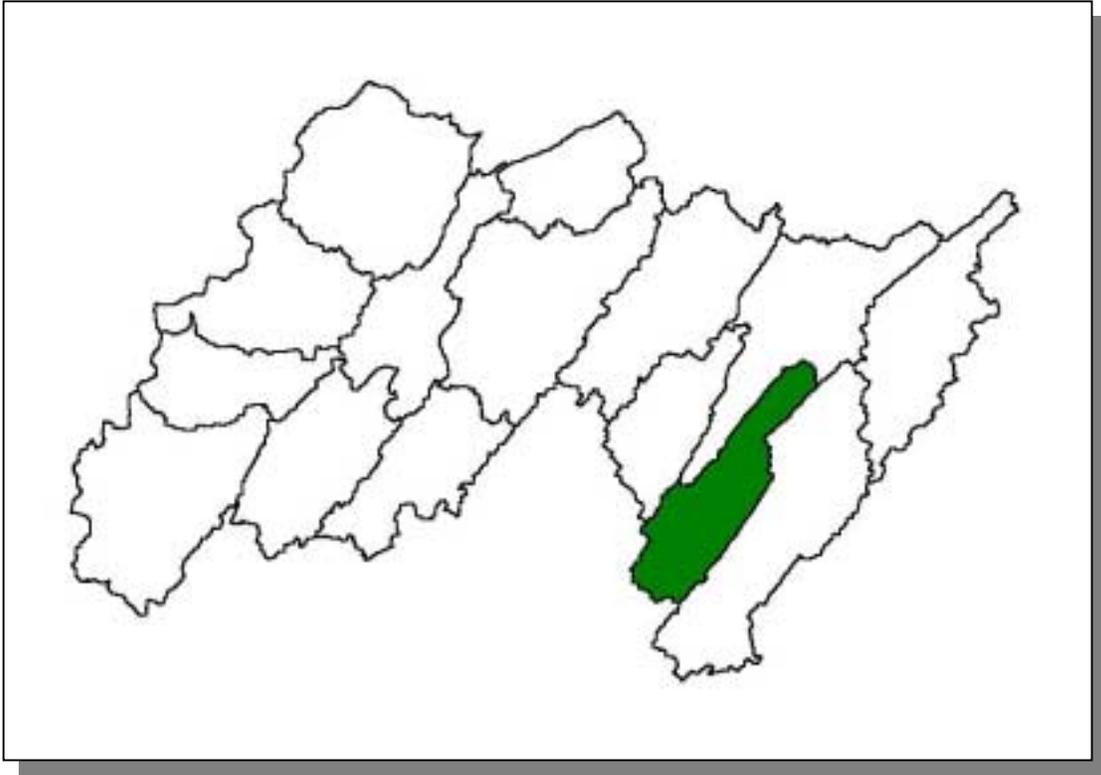


Figure 4-19. Location of Subwatershed 06010201170. All Watts Bar HUC-14 subwatershed boundaries are shown for reference.

4.2.D.i. General Description.

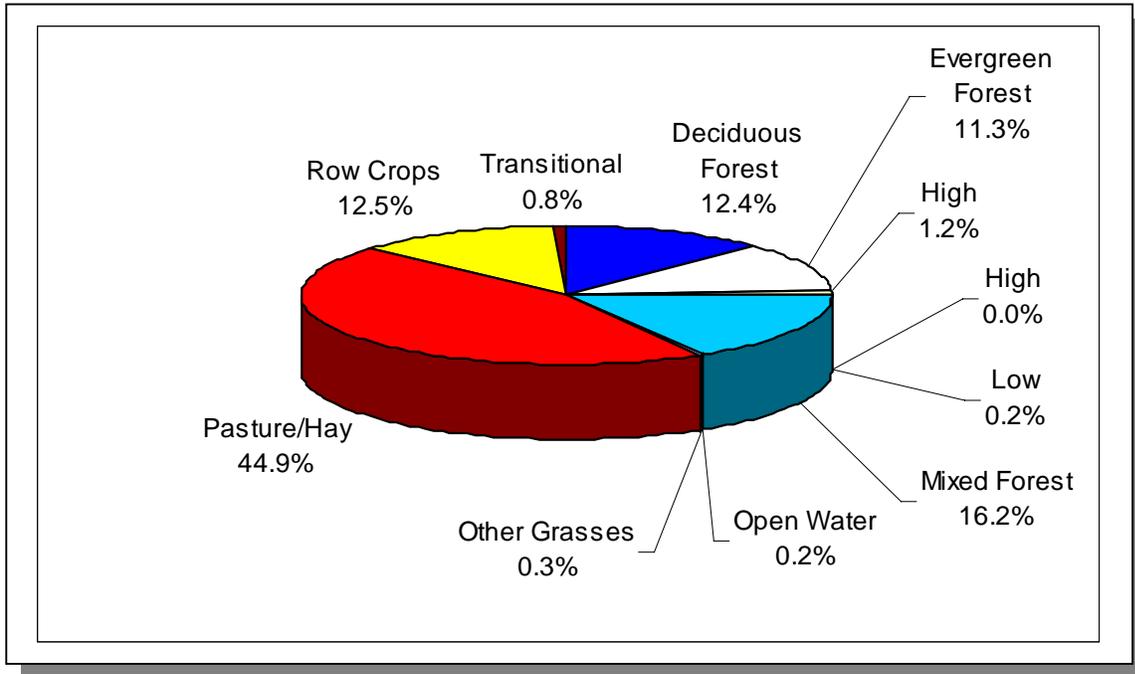


Figure 4-20. Land Use Distribution in Subwatershed 06010201170. More information is provided in Watts Bar-Appendix IV.

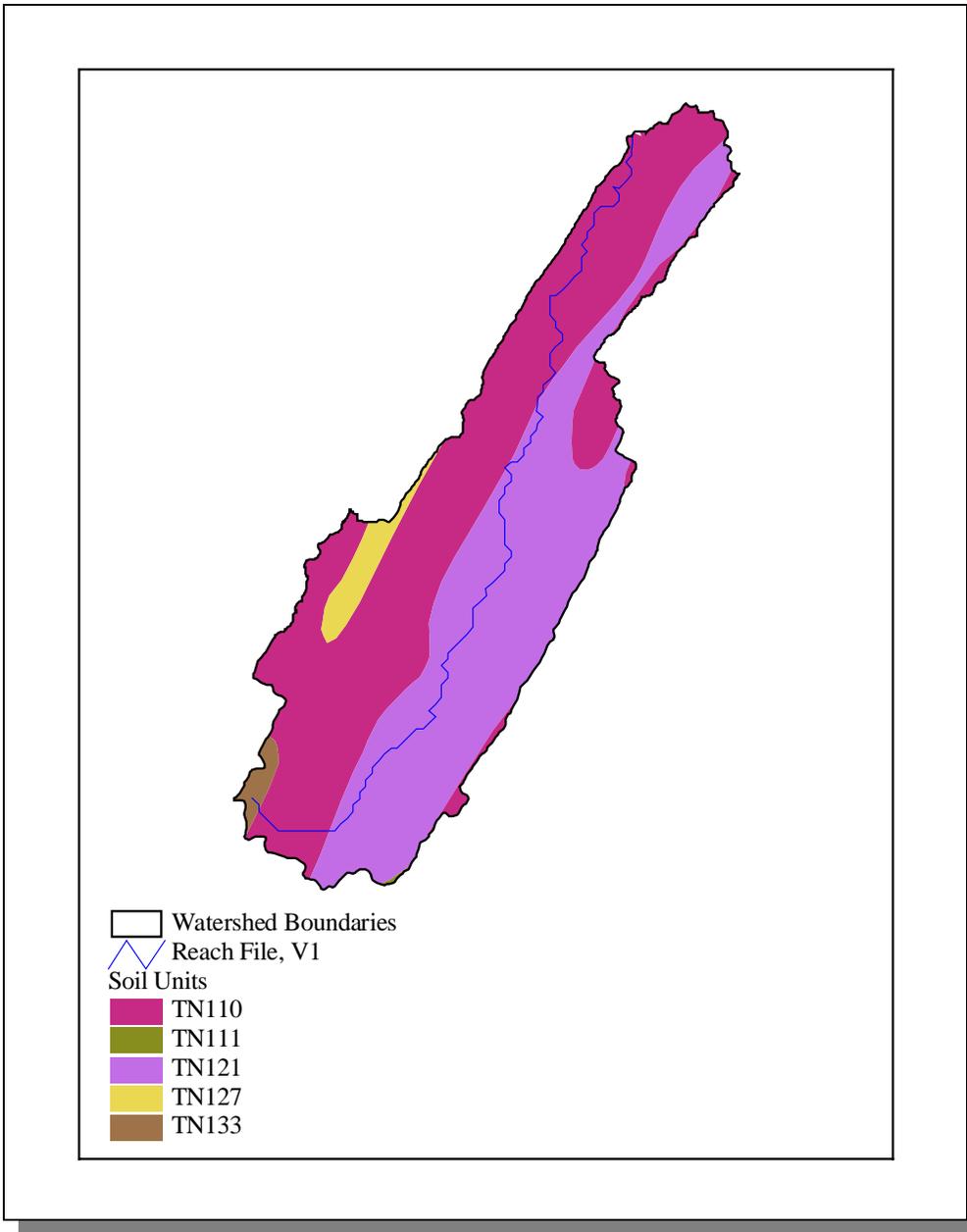


Figure 4-21. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201170.

| STATSGO MAP UNIT ID | PERCENT HYDRIC | HYDROLOGIC GROUP | PERMEABILITY (in/hour) | SOIL pH | ESTIMATED SOIL TEXTURE | SOIL ERODIBILITY |
|---------------------|----------------|------------------|------------------------|---------|------------------------|------------------|
| TN110 | 0.0 | B | 2.22 | 4.96 | Loam | 0.31 |
| TN111 | 0.0 | C | 1.41 | 5.10 | Loam | 0.34 |
| TN121 | 0.0 | B | 1.30 | 5.21 | Loam | 0.33 |
| TN127 | 3.0 | C | 1.31 | 5.20 | Loam | 0.35 |
| TN133 | 0.0 | C | 1.35 | 6.04 | Clayey Loam | 0.27 |

Table 4-26. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 06010201170. More information is provided in Watts Bar-Appendix IV.

| County | COUNTY POPULATION | | Portion of Watershed (%) | ESTIMATED POPULATION IN WATERSHED | | % CHANGE |
|--------------|-------------------|----------------|--------------------------|-----------------------------------|--------------|-------------|
| | 1990 | 1997 Est. | | 1990 | 1997 | |
| Loudon | 31,255 | 38,245 | 7.44 | 2,326 | 2,846 | 22.4 |
| McMinn | 42,383 | 46,000 | 1.73 | 735 | 798 | 8.6 |
| Monroe | 30,541 | 33,953 | 1.6 | 488 | 543 | 11.3 |
| Total | 104,179 | 118,198 | | 3,549 | 4,187 | 18.0 |

Table 4-27. Population Estimates in Subwatershed 06010201170.

| Populated Place | County | Population | NUMBER OF HOUSING UNITS | | | |
|-----------------|--------|--------------|-------------------------|--------------|-------------|----------|
| | | | Total | Public Sewer | Septic Tank | Other |
| Loudon | Loudon | 4,026 | 1,832 | 1,701 | 131 | 0 |
| Sweetwater | Monroe | 5,054 | 2,164 | 1,598 | 560 | 6 |
| Total | | 9,080 | 3,996 | 3,299 | 691 | 6 |

Table 4-28. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 06010201170.



Figure 4-22. Location of Historical Streamflow Data Collection Sites in Subwatershed 06010201170. More information is provided in Watts Bar-Appendix IV.

4.2.D.ii. Point Source Contributions.



Figure 4-23. Location of Concentrated Animal Feeding Operation (CAFO) Sites in Subwatershed 06010201170. More information is provided in Watts Bar-Appendix IV.

4.2.D.iii. Nonpoint Source Contributions.

| LIVESTOCK (COUNTS) | | | | | |
|--------------------|--------|----------|----------|------|-------|
| Beef Cow | Cattle | Milk Cow | Chickens | Hogs | Sheep |
| 3,267 | 8,255 | 1,274 | 8 | 55 | 44 |

Table 4-29. Summary of Livestock Count Estimates in Subwatershed 06010201170. According to the Census of Agriculture, "Cattle" includes heifers, heifer calves, steers, bulls and bull calves.

| County | INVENTORY | | REMOVAL RATE | |
|--------------|---------------------------------|---------------------------------|---------------------------------------|-----------------------------------|
| | Forest Land (thousand acres) | Timber Land (thousand acres) | Growing Stock (million cubic feet) | Sawtimber (million board feet) |
| Loudon | 62.3 | 62.3 | 1.1 | 3.5 |
| Monroe | 301.5 | 279.1 | 7.4 | 21.4 |
| Total | 363.8 | 341.4 | 8.5 | 24.9 |

Table 4-30. Forest Acreage and Average Annual removal rates (1987-1994) in Subwatershed 06010201170.

| CROP | TONS/ACRE/YEAR |
|---------------------------------------|----------------|
| Corn (Row Crops) | 8.21 |
| Tobacco (Row Crops) | 3.74 |
| Grass (Hayland) | 0.62 |
| Legume (Hayland) | 0.77 |
| Legume Grass (Hayland) | 0.81 |
| Grass (Pastureland) | 0.76 |
| Grass, Forbs, Legumes (Mixed Pasture) | 0.54 |
| Forest Land (Grazed) | 0.00 |
| Forest Land (Not Grazed) | 0.00 |
| Farmsteads and Ranch Headquarters | 0.36 |
| Wheat (Close Grown Cropland) | 4.03 |
| Non Agricultural Land Use | 0.00 |
| Soybeans (Row Crops) | 12.82 |

Table 4-31. Annual Soil Loss in Subwatershed 06010201170.